

CLAIMS LISTING

- 1.(original) Image storage screen or panel comprising a binderless needle-shaped stimuable phosphor of CsBr:Eu, wherein amounts of Eu-dopant are in the range of from 100 up to 400 p.p.m. versus CsBr, and a substrate, and wherein said substrate has a surface roughness of less than 2 μm and a reflectivity of more than 80%.
- 2.(original) Image storage screen or panel according to claim 1, wherein said binderless needle-shaped stimuable phosphor has from 100 up to 200 p.p.m. of Eu-dopant versus CsBr.
- 3.(original) Screen or panel according to claim 1, wherein said reflectivity is at least 90%.
- 4.(original) Screen or panel according to claim 2, wherein said reflectivity is at least 90%.
- 5.(original) Screen or panel according to claim 1, wherein said reflectivity is at least 95%.
- 6.(original) Screen or panel according to claim 2, wherein said reflectivity is at least 95%.
- 7.(original) Screen or panel according to claim 1, wherein said substrate has a surface roughness of less than 1 μm .

- 8.(original) Screen or panel according to claim 2, wherein
said substrate has a surface roughness of less than 1 μm .
- 9.(original) Screen or panel according to claim 3, wherein
said substrate has a surface roughness of less than 1 μm .
- 10.(original) Screen or panel according to claim 4, wherein
said substrate has a surface roughness of less than 1 μm .
- 11.(original) Screen or panel according to claim 5, wherein
said substrate has a surface roughness of less than 1 μm .
- 12.(original) Screen or panel according to claim 6, wherein
said substrate has a surface roughness of less than 1 μm .
- 13.(original) Screen or panel according to claim 1, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 14.(original) Screen or panel according to claim 2, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 15.(original) Screen or panel according to claim 3, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 16.(original) Screen or panel according to claim 4, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

- 17.(original) Screen or panel according to claim 5, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 18.(original) Screen or panel according to claim 6, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 19.(original) Screen or panel according to claim 7, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 20.(original) Screen or panel according to claim 8, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 21.(original) Screen or panel according to claim 9, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 22.(original) Screen or panel according to claim 10, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 23.(original) Screen or panel according to claim 11, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.

- 24.(original) Screen or panel according to claim 12, wherein
said substrate is an amorphous carbon layer, overcoated
with a reflecting layer.
- 25.(original) Screen or panel according to claim 13, wherein
said reflecting layer is a metal layer.
- 26.(original) Screen or panel according to claim 14, wherein
said reflecting layer is a metal layer.
- 27.(original) Screen or panel according to claim 13, wherein
said reflecting layer is an aluminum layer.
- 28.(original) Screen or panel according to claim 14, wherein
said reflecting layer is an aluminum layer.
- 29.(currently amended) ~~A Use of a screen or panel according to
claim 1, in a~~ system for computed radiography comprising an
image screen or panel of claim 1.
- 30.(currently amended) ~~A Use of a screen or panel according to
claim 2, in a~~ system for computed radiography comprising an
image screen or panel of claim 2.
- 31.(currently amended) ~~A Use of a screen or panel according to
claim 3, in a~~ system for computed radiography comprising an
image screen or panel of claim 3.
- 32.(currently amended) ~~A Use of a screen or panel according to
claim 4, in a~~ system for computed radiography comprising an
image screen or panel of claim 4.

33. (currently amended) A Use of a screen or panel according to claim 5, in a system for computed radiography comprising an image screen or panel of claim 5.
34. (currently amended) A Use of a screen or panel according to claim 6, in a system for computed radiography comprising an image screen or panel of claim 6.
35. (currently amended) A Use of a screen or panel according to claim 7, in a system for computed radiography comprising an image screen or panel of claim 7.
36. (currently amended) A Use of a screen or panel according to claim 8, in a system for computed radiography comprising an image screen or panel of claim 8.
37. (currently amended) A Use of a screen or panel according to claim 9, in a system for computed radiography comprising an image screen or panel of claim 9.
38. (currently amended) A Use of a screen or panel according to claim 10, in a system for computed radiography comprising an image screen or panel of claim 10.
39. (currently amended) A Use of a screen or panel according to claim 11, in a system for computed radiography comprising an image screen or panel of claim 11.

40. (currently amended) A Use of a screen or panel according to claim 12, in a system for computed radiography comprising an image screen or panel of claim 12.
41. (currently amended) A Use of a screen or panel according to claim 13, in a system for computed radiography comprising an image screen or panel of claim 13.
42. (currently amended) A Use of a screen or panel according to claim 14, in a system for computed radiography comprising an image screen or panel of claim 14.
43. (currently amended) A Use of a screen or panel according to claim 15, in a system for computed radiography comprising an image screen or panel of claim 15.
44. (currently amended) A Use of a screen or panel according to claim 16, in a system for computed radiography comprising an image screen or panel of claim 16.
45. (currently amended) A Use of a screen or panel according to claim 17, in a system for computed radiography comprising an image screen or panel of claim 17.
46. (currently amended) A Use of a screen or panel according to claim 18, in a system for computed radiography comprising an image screen or panel of claim 18.

47. (currently amended) A Use of a screen or panel according to claim 19, in a system for computed radiography comprising an image screen or panel of claim 19.
48. (currently amended) A Use of a screen or panel according to claim 20, in a system for computed radiography comprising an image screen or panel of claim 20.
49. (currently amended) A Use of a screen or panel according to claim 21, in a system for computed radiography comprising an image screen or panel of claim 21.
50. (currently amended) A Use of a screen or panel according to claim 22, in a system for computed radiography comprising an image screen or panel of claim 22.
51. (currently amended) A Use of a screen or panel according to claim 23, in a system for computed radiography comprising an image screen or panel of claim 23.
52. (currently amended) A Use of a screen or panel according to claim 24, in a system for computed radiography comprising an image screen or panel of claim 24.
53. (currently amended) A Use of a screen or panel according to claim 29, in mammographic applications comprising the system for computed radiography of claim 29.

54. (currently amended) ~~A Use of a screen or panel according to claim 30,~~ in mammographic applications comprising the system for computed radiography of claim 30.

55. (currently amended) ~~A Use of a screen or panel according to claim 31,~~ in mammographic applications comprising the system for computed radiography of claim 31.

56. (currently amended) ~~A Use of a screen or panel according to claim 32,~~ in mammographic applications comprising the system for computed radiography of claim 32.

57. (new) A process for obtaining an image comprising:
exposing said image screen or panel of claim 1 with image radiation attenuated by an object or emitted by an object;
storing said image radiation as stored radiation on said image screen or panel;
exposing said image screen or panel to stimulating rays to release said stored radiation as light;
collecting said light;
converting said light into electrical signals; and
producing an image from said electrical signals wherein said image corresponds to said image radiation.